UST Monitoring

Fuel Oil Degradation Test

Subsurface degradation of fuel oil spills can be estimated by examining the ratios of C17/pristane and C18/phytane. To assist in identifying these four compounds from the complex fuel oil analysis, we offer a product that contains these compounds for retention time determination.

Fuel Oil Degradation Mix (4 components)

heptadecane (C17) octadecane (C18) pristane (2,6,10,14-tetramethylpentadecane) phytane (2,6,10,14-tetramethylhexadecane) 2,000µg/mL each in methylene chloride, 1mL/ampul

cat. # 31240 (ea.) ¹Interpretation of Gas Chromatographic Data in Subsurface Hydrocarbon Investigations, R. Senn and M. Johnson, Ground Water Monitoring Review, Winter

Mineral Spirits

1987.

There are four general types of mineral spirits, classified according to boiling point range (BPR):

• Type I (Stoddard solvent) BPR 149–182°C Type II (high flash point) BPR 177–196°C • Type III (odorless) BPR 149-196°C • Type IV (low dry point) BPR 149-174°C

We prepare our solutions from an equal volume blend of Type I, II, and III mineral spirits.

Mineral Spirits Standards (Unweathered)

5,000µg/mL in methylene chloride, 1mL/ampul cat. # 31225 (ea.) 50,000µg/mL in methylene chloride, 1mL/ampul cat. # 31260 (ea.) 50,000µg/mL in methylene chloride, 5mL/ampul cat. # 31261 (ea.)

Stoddard Solvent Standard

Stoddard solvent is also known as Type I mineral spirits, Texsolve S, or Varsol® 1 mineral spirits. We offer this reference material for those who need to calibrate Stoddard solvent separately. This standard is dissolved in methanol for analysis by either direct injection or purge and trap.

 $10,000\mu g/mL$ in P&T methanol, 1mL/ampulcat. # 30487 (ea.)



Petroleum Volatile Organic Compounds (PVOC), Gasoline Range Organics (GRO), & Benzene-Toluene-Ethylbenzene-Xylenes (BTEX)

PVOC Mix (California) (7 components)

m-xvlene ethylhenzene o-xvlene methyl tert-butyl ether (MTBE) p-xylene toluene

1,000µg/mL each in P&T methanol, 1mL/ampul cat. # 30231 (ea.)

PVOC/GRO Mix (Wisconsin) (10 components)

1,2,4-trimethylbenzene henzene ethylbenzene 1,3,5-trimethylbenzene methyl tert-butyl ether (MTBE) m-xylene naphthalene o-xylene

1,000µg/mL each in P&T methanol, 1mL/ampul cat. # 30095 (ea.)

GRO Mix (9 components)

benzene 1,2,4-trimethylbenzene

ethylbenzene 2,2,4-trimethylpentane (isooctane)

3-methylpentane *m*-xvlene naphthalene o-xylene

1,000µg/mL each in P&T methanol, 1mL/ampul cat. # 30069 (ea.)

GRO Mix (EPA) (9 components)

1,000 benzene $500\mu g/mL$ 1,2,4-trimethylbenzene ethylbenzene 500 2,2,4-trimethylpentane 1,500 heptane 500 m-xvlene 1,000 1,500 2-methylpentane o-xylene toluene 1,500

In P&T methanol, 1mL/ampul

cat. # 30065 (ea.)

BTEX Standard (6 components)

henzene m-xvlene ethylbenzene o-xylene toluene p-xylene

200µg/mL each in P&T methanol, 1mL/ampul

cat. # 30051 (ea.)

2,000µg/mL each in P&T methanol, 1mL/ampul cat. # 30213 (ea.)

2,000µg/mL each in P&T methanol (m-xylene and p-xylene at 1,000µg/mL), 1mL/ampul cat. # 30488 (ea.)

BTEX Gas Mix (6 components)

benzene ethylbenzene o-xylene toluene p-xvlene

1ppm in nitrogen, 104 liters @ 1,800psi cat. # 34414 (ea.) \$548

100ppb in nitrogen, 104 liters @ 1,800psi cat. # 34428 (ea.) \$643

1ppm in nitrogen, 110 liters @ 1,800psi (Pi-marked Cylinder)

cat. # 34414-PI (ea.) \$736 100ppb in nitrogen, 110 liters @ 1,800psi (Pi-marked Cylinder)

cat. # 34428-PI (ea.) \$843

Requires a high-purity VOC single-stage regulator. See page 433. No data pack available. Quantity discounts not available.

cylinder **design**



Spectra 104L Cylinders: Aluminum construction.

Size: 8 x 24 cm Volume/Pressure: 104 liters of gas @ 1,800 psi CGA-180 outlet fitting. Weight: 1.5 lbs/0.7 kg



Scotty 110L Cylinders: Aluminum construction.

Size: 8.3 x 29.5 cm Volume/Pressure: 110 liters of gas @ 1,800 psi CGA-180 outlet fitting. Weight: 2.2 lbs/1 kg US DOT Specs: 3AL2216





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